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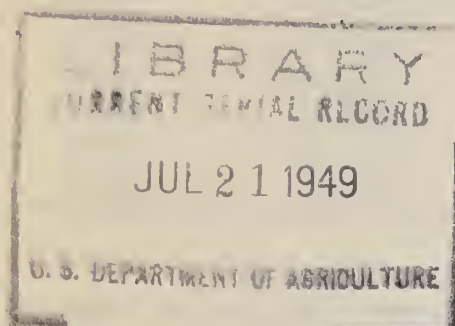
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UNITED STATES DEPARTMENT OF AGRICULTURE
Bureau of Agricultural Economics

In cooperation with

NEW YORK STATE DEPARTMENT OF AGRICULTURE AND MARKETS



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APPLE MANUFACTURES

THE USE OF APPLES IN CIDER MILLS

EVAPORATORS AND CANNERIES IN NEW YORK STATE

1937-48

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Albany, New York
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APPLE MANUFACTURES, 1937-48

This report presents statistics on the apple-manufacturing industry in New York State for each crop year starting with 1937.

Apple production has varied widely in New York from year to year. Estimates of production and value of sales in the commercial counties of the State have been as follows:

Apples: Production and value of sales in commercial counties, New York, 1937-48					
Year	: Production	: Value of sales	Year	: Production	: Value of sales
	(1000 bu.)	(1000 dollars)		(1000 bu.)	(1000 dollars)
1937	19,439	10,395	: 1943	12,750	29,335
1938	13,954	10,707	: 1944	15,795	32,036
1939	24,011	10,871	: 1945	2,160	7,392
1940	12,865	9,528	: 1946	15,116	33,422
1941	16,302	14,666	: 1947	15,045	19,559
1942	18,200	20,288	: 1948	11,750	21,624

During the period covered by the apple manufactures statistics, the number of establishments has decreased. Less than 300 plants have operated in each of the last three crop seasons whereas ten years earlier over 500 were operating. Many small plants, especially cider mills and evaporators established when apple orchards were widespread throughout the State, have gone out of use permanently because of fire, conversion to other uses, abandonment or the disappearance of orchards in many areas. There appears to be a trend toward a smaller number of plants, having better equipment and making a wider variety of products than in the past.

The 4.5 million bushels of apples used by New York State processing plants from the 1948 crop was substantially less than the volume used in the previous two years. Largest volume used by New York processors was from the 1946 crop. Approximately half of the 1948 crop apples used by these manufacturers were for canned apples and applesauce, and about two-fifths for cider and apple juice. Other apple products such as dried apples, frozen apples, apple butter, etc., accounted for about a tenth of the total receipts. Statistics for the relatively new industry of daily preparation and shipment of apples to pie bakers are not included here except incidentally as it is carried on in or near areas of production. It has reached its highest development in New York City, using open market or contract purchases of apples the year round.

In addition to the wide variety of recognized food products, pomace from cider mills and skins and cores from canning factories yield substantial amounts of dried residue used for the extraction of pectin.

The apple manufacture information in this publication was gathered from processors mainly by mailed questionnaires supplemented in a few cases by personal visitation by representatives of the Department of Agriculture and Markets, and with estimates for a few small concerns from whom reports were not received.

Cordial appreciation is expressed for the splendid cooperation of the people in the apple processing industries.

This publication was prepared under the direct supervision of Wm. I. Bair.

R. L. GILLETI, Agricultural Statistician and
Director of Agricultural Statistics.

Table 1.- Receipts and utilization of apples at manufacturing plants, New York, crops of 1937-48.

Crop year	Net receipts 1/	Receipts from other states (included in preceding column)	Used for cider and apple juice	Used for canning or applesauce
<u>bushels</u>				
1937	7,592,200	10,600	4,555,000	1,657,700
1938	3,861,900	10,500	2,639,100	790,100
1939	8,361,900	7,400	5,101,500	1,987,800
1940	4,195,000	10,500	2,573,700	1,351,500
1941	7,328,300	17,500	3,993,600	2,580,600
1942	7,907,500	62,000	3,712,500	2,751,700
1943	5,611,300	98,400	3,037,900	1,865,400
1944	7,607,800	479,400	4,278,800	2,010,200
1945	1,418,000	806,500	873,000	440,800
1946	8,723,800	495,100	4,364,400	3,595,500
1947	6,214,000	99,100	2,920,000	2,839,800
1948	4,552,000	173,600	1,788,300	2,271,000

Table 1.- Receipts and utilization of apples at manufacturing plants, New York, crops of 1937-48 - continued.

Crop year	Used for drying	Used for freezing 2/	Used for other products 2/ 3/
<u>bushels</u>			
1937	1,284,800		94,700
1938	373,900		58,800
1939	1,207,100		65,500
1940	199,400		70,400
1941	536,700		217,400
1942	1,120,800	39,300	283,200
1943	502,400	113,800	91,800
1944	441,100	577,400	300,300
1945	-	76,800	27,400
1946	114,900	459,400	189,600
1947	108,800	191,500	153,900
1948	39,600	169,600	283,500

1/ Apples received at a plant and then transferred to another plant for processing are included only in plant where processed. One bushel is assumed to equal 48 pounds.

2/ Frozen apples were first asked separately in 1944. The 1943 and 1942 totals for this item as published may be incomplete. For 1941 and earlier years quantities used for frozen apples were not separated from "other products."

3/ Among other products for which these apples were used are jelly, apple butter, mincemeat, fresh sliced apples for pies in upstate areas and in 1941 and earlier years frozen apples. Included also are small amounts of loss and shrinkage and some apples sorted out for sale as fresh fruit.

Table 2.- Cider and dried apple products made, New York, from crops of 1937-48

Crop : year :	Cider and juice pressed 1/	: Dried apples :	: Dried apple : chops :	Dried skins : and cores :	Dried pomace 2/
	Gallons		Pounds		
1937	19,171,800	7,101,200	727,000	not available	2,426,300
1938	10,840,800	2,147,700	192,300		104,000
1939	21,835,600	7,076,700	461,700	1937 - 40	612,000
1940	10,659,000	869,000	469,400		454,200
1941	17,863,400	3,056,700	284,500	595,300	823,900
1942	17,235,500	6,473,500	356,700	1,461,100	2,126,000
1943	14,188,100	2,736,200	233,400	649,800	758,000
1944	19,725,300	2,489,700	194,000	536,100	1,168,000
1945	3,565,900	-	-	-	67,000
1946	19,103,000	721,100	67,000	151,000	1,570,000
1947	13,230,400	648,600	-	-	720,500
1948	7,714,200	265,500	-	-	3,044,200

1/ Quantities disposed as apple juice were: 1940 - 3,360,300 gallons; 1941 - 3,620,800; 1942 - 3,685,000; 1943 - 3,456,100; 1944 - 6,262,600; 1945 - 1,840,600; 1946 - 7,611,200; 1947 - 3,657,100; 1948 - 2,607,100. Separate data on "apple juice" were not secured prior to 1940.

2/ Years 1937-40 include dried skins and cores, as separate data were first asked in 1941.

Table 3.- Average price paid for apples, by type of manufacturing plant, New York 1937-48 1/

Crop : year :	Cider mills	: Average price paid for apples by Evaporators :	Canneries	: All plants
		Dollars per 100 pounds		
1937	.22	.33	.43	.29
1938	.26	.28	.58	.34
1939	.18	.27	.43	.26
1940	.28	.29	.75	.47
1941	.34	.57	1.19	.72
1942	.44	1.46	1.59	1.05
1943	1.13	2.86	3.12	2.12
1944	1.04	2.96	3.21	2.06
1945	2.77	-	6.69	4.40
1946	1.21	1.88	3.91	2.57
1947	.67	.89	2.58	1.72
1948	1.09	1.22	2.87	2.16

1/ These prices are the average of "average or prevailing prices" as reported, excluding cases where special uses called for unusual grades, etc., and weighted by the importance of the various districts.

Table 4.- Receipts and utilization of apples by type of manufacturing plants, New York, crops of 1947 and 1948

Item	Cider Mills		Other processors		All plants	
	1947	1948	1947	1948	1947	1948
<u>Receipts:</u>						
Net <u>1</u> /	2,714,800	988,800	3,499,200	3,563,200	6,214,000	4,552,000
From other states (included above)	66,600	3,400	32,500	170,200	99,100	173,600
<u>Utilized for</u>						
Cider and juice	2,714,800	988,800	205,200	799,500	2,920,000	1,788,300
Canning and apple sauce	-	-	2,839,800	2,271,000	2,839,800	2,271,000
Drying	-	-	108,800	39,600	108,800	39,600
Freezing	-	-	191,500	169,600	191,500	169,600
Other products	-	-	153,900	283,500	153,900	283,500

1/ Apples received at a plant and then transferred to another plant for processing are included only in plant where processed.

Table 5.- Apples received and cider and juice made by districts and type of plant, New York, crops of 1947 and 1948

District 1/ and year	Apples received at		:		Cider and juice made at	
	Cider mill	:Other processors:	Total	:	Cider mill	:Other processors:
		<u>bushels</u>				<u>gallons</u>
Ontario						
1947	1,379,800	3,197,900	4,577,700		6,162,700	1,903,400
1948	270,100	3,045,600	3,315,700		1,181,200	3,904,400
						8,066,100
						5,085,600
Mid-western						
1947	75,800	74,100	149,900		429,000	-
1948	44,500	93,900	138,400		204,000	-
						429,000
						204,000
Hudson						
1947	569,400	85,900	655,300		2,024,700	-
1948	263,200	100,000	363,200		763,400	-
						2,024,700
						763,400
Champlain						
1947	6,900	-	6,900		26,300	-
1948	5,300	-	5,300		23,400	-
						26,300
						23,400
Other						
1947	682,900	141,300	824,200		2,684,300	-
1948	405,700	323,700	729,400		1,637,800	-
						2,684,300
						1,637,800
State						
1947	2,714,800	3,499,200	6,214,000		11,327,000	1,903,400
1948	988,800	3,563,200	4,552,000		3,809,800	3,904,400
						13,230,400
						7,714,200

1/ Districts as used in this publication include counties as listed below:

- Ontario District - Niagara, Orleans, Monroe, Wayne
- Mid-western District - Erie, Genesee, Wyoming, Livingston, Ontario, Yates, Seneca, Tompkins
- Hudson District - Columbia, Dutchess, Putnam, Westchester, Greene, Ulster, Orange, Rockland
- Champlain District - Clinton, Essex
- Other Districts - All counties not included above.

Table 6.- Apple manufacturing establishments in operation and establishments making specified products, New York, crops of 1937-48

Crop year	Establishments in operation	Establishments making 1/		
		Cider and juice	Dried apple products	Other apple products 2/
<u>Number</u>				
1937	640	578	47	26
1938	500	454	29	22
1939	573	507	45	25
1940	427	392	19	24
1941	461	418	26	25
1942	374	318	42	25
1943	283	243	33	25
1944	300	250	30	32
1945	63	56	2	10
1946	261	221	13	35
1947	293	244	15	39
1948	249	212	12	34

1/ A total of the establishments making cider and juice, dried apple products or other apple products exceeded the number of establishments in operation, as an establishment may make more than one of the listed products. "Custom" and "commercial" cider mills are included in number of establishments.

2/ Other apple products include canned apples or applesauce, frozen apples, apple butter, mincemeat, fresh sliced apples for pies in upstate areas, etc.

Table 7.- Apples received from other states at New York processing plants, crops of 1946, 1947 and 1948

	1946	1947	1948
By states of origin 1/		Bushels	
New England States	16,000	4,000	2,400
New Jersey, Pennsylvania	75,600	14,800	13,000
Ohio, Indiana, Illinois, Michigan	67,300	80,300	2,100
Delaware, Maryland, Virginia, West Virginia,	334,000	-	77,000
Other States	2,200	-	-
Canada	-	-	79,100
Total	495,100	99,100	173,600
By district in New York in which received 2/			
Ontario	448,700	69,900	114,900
Mid-western	-	1,200	1,700
Hudson, Champlain and other	46,400	28,000	57,000
Total	495,100	99,100	173,600

1/ States grouped to prevent disclosure of individual operations. In a few cases receipts of apples from more than one state were grouped and the proportion to be credited to a given state was necessarily estimated.

2/ For counties included in each district see Footnote 1, Table 5, Page 6.

Table 8.- Estimates of commercial apple production by varieties, New York, 1943-48 1/

Varieties	: 1943	: 1944	: 1945	: 1946	: 1947	: 1948
<u>Summer Varieties</u>			<u>Thousand bushels</u>			
Other summer	510	632	151	907	451	352
<u>Fall Varieties</u>						
Wealthy	765	632	194	1,058	602	822
Other fall	510	632	43	605	451	352
<u>Winter Varieties</u>						
Baldwin	1,441	1,737	367	1,058	2,106	588
Ben Davis	701	948	65	756	752	352
Cortland	892	1,106	130	1,360	1,354	1,410
Delicious	446	632	86	605	602	588
McIntosh	3,825	4,896	605	3,930	4,063	3,879
Northern Spy	638	790	151	756	903	352
R. 1. Greenings	1,658	1,895	130	1,965	2,106	1,528
Rome Beauty	472	474	108	1,058	602	705
Other winter	892	1,421	130	1,058	1,053	822
<u>Total all Varieties</u>	<u>12,750</u>	<u>15,795</u>	<u>2,160</u>	<u>15,116</u>	<u>15,045</u>	<u>11,750</u>

1/ Estimates of the commercial apple crop refer to the production of apples in the commercial areas, counties included in the respective commercial areas are given below:

<u>Area</u>	<u>Counties included.</u>
Ontario	- Niagara, Orleans, Monroe, Wayne.
Mid-western	- Erie, Genesee, Wyoming, Livingston, Ontario, Yates, Seneca, Tompkins.
Hudson	- Columbia, Dutchess, Putnam, Westchester, Greene, Ulster, Orange, Rockland.
Champlain	- Clinton, Essex
Central & eastern	- Oswego, Cayuga, Onondaga, Saratoga, Schoharie, Albany, Rensselaer.

